



Flat-Cinema-TV 40" 40 TK 81

Operating Instructions

Thank you

Dear customer, thank you for choosing a Metz product.

Before using the TV set for the first time, you should read these operating instructions carefully.

Your METZ-WERKE

Contents

1.	Standards
2.	Safety Notes
3.	Overview
3.1	Scope of Delivery
3.2	Connections
3.3	Keys and Functions of the Remote Control 9
4.	Putting into Service
4.1	Unpacking and Positioning
4.2	Wall Mounting13
4.3	Connecting and Switching On14
4.4	Using the TV Menu15
4.5	Basic TV-Menu Settings16
4.6	First-Time Settings17
5.	Day-to-Day Operation
5.1	Switching On and Off21
5.2	Adjusting the Sound
5.3	Adjusting the Picture22
5.4	TV Mode
	Teletext24
5.5	PC Mode
5.6	Operation with External Devices
5.7	Special Functions
6.	Troubleshooting
7.	Technical Data
Code	e List
Loca	l Controls 36

1. Standards

This monitor is an information-technology device and complies with the following directives and standards of the European Union:

- 89/336/CEE dated 3 May 1989 with subsequent modifications (Directive 92/31/CEE dated April 1992 and Directive 93/68/CEE dated 22 July 1993)
- 73/23/CEE dated 19 February 1973 with subsequent modifications (Directive 93/68/CEE dated 22 July 1993)
- EN55022, EN55024, EN61000-3-2/-3 (Electromagnetic Compatibility)
- EN60065 (Safety Requirements).

The compliance with the requirements of these standards is certified by the markings applied to the device.

2. Safety Notes

In order to avoid the risk of injuries and accidents during normal use, you should read and comply with the following safety notes. Incorrect installation or connection of the monitor could result in damage to the monitor itself and to other devices connected to it. Observe the warnings on the monitor and in these operating instructions. Never allow children to operate electrical equipment without supervision.

General information

The monitor you have purchased complies with the highest quality requirements in this sector and has been inspected for pixel faults in accordance with the strict standard ISO 13406-2, Fault Class II. In spite of the extreme care taken during manufacture, its is still possible, for technological reasons, that a few pixels do not function correctly.

Please note that such pixel faults cannot be regarded as a sufficient reason for warranty claims as long as they do not exceed the limits laid down in the above-mentioned standard.

Under certain circumstances, there may be some hum on the sound channel of the monitor. This normally originates from the main voltage and may be caused by connecting the earthing wires of different devices together. You can prevent it by connecting a so-called sheath-current filter between the incoming antenna cable and the antenna input to the monitor. Such filters, which look like a small adapter, can be purchased from your local dealer.

For technical reasons, the monitor may also generate some noise, but this may not exceed the value shown in the device specification.

If your monitor is connected to an external antenna, this antenna must be earthed to prevent electric shocks and to discharge any static electricity which may be generated. The earth connection must comply with the applicable national regulations.

Ambient conditions

Never use the monitor in ambient conditions which do not comply with the technical data shown at the end of these operating instructions.

Use of the monitor under other conditions can result in electric shocks, fire or failure of the monitor.

Protect the monitor against moisture. This includes continuous high relative-humidity values, water in the immediate vicinity, water dripping or splashing from other objects and rain. Do not place objects filled with water, such as flower vases, on the monitor. When connecting an external antenna, take care that no water can enter at the point where the antenna cable passes through the external wall.

When installing the monitor, allow it to adapt itself to the temperature in the room in which it is installed. If moisture condenses on the monitor, allow it to evaporate completely before switching on.

If this is not done, there is a risk of electric shocks and irreparable damage to the monitor.

Protect the monitor against high temperatures. Do not expose it to direct sunlight. Do not install it close to fires, radiators or other sources of heat. Take care that the heat generated by the monitor can be dissipated: do not block the ventilation slits. Ensure that there is sufficient space between the ventilation slits and other pieces of furniture (above and below the monitor and on both sides). Do not allow curtains or drapes to hang over the monitor.

If this is not done, the monitor may overheat and may even catch fire.

Mains connection and operation

In order to safely disconnect the monitor from the mains supply, turn off the main power switch and remove the mains cable from the outlet socket. Connect the monitor only to a correctly installed and earthed mains outlet sokket. Make sure that the mains voltage matches the value specified in the technical data of the monitor. Ensure that the mains plug and the outlet socket can be reached easily at any time.

Non-compliance with the above may result in electric shocks, fire or failure of the monitor.

Lay the mains cable so that nobody can trip over it.

If the monitor falls from its table or mounting bracket, persons may be injured and there may be irreparable damage to the monitor.

Use only the mains cable supplied with the monitor. Take care that it is not damaged and do not make any modifications to it. Never use a damaged mains cable. If the mains cable or the plug is damaged, the monitor may not be used, since there is a risk of electric shock, fire or failure of the monitor.

Never touch the mains switch or the mains cable with wet hands. This could result in an electric shock.

Never remove the mains plug from the outlet socket by pulling the cable. Avoid laying the cable in the vicinity of hot objects, since this could result in fire or electric shocks.

Before leaving the monitor unattended for a long period, or in the case of a thunderstorm, remove the mains plug from the outlet socket and remove the plug of the antenna cable from the antenna socket as a precautionary measure to prevent fires and the risk of electric shocks.

Always switch off the monitor and the signal source before connecting them together in order to prevent electric shocks and injuries.

Faults

If the monitor or its mains cable is damaged in any manner, immediately disconnect the mains cable from the outlet socket.

You should also immediately disconnect the mains cable from the outlet socket if you notice smoke, unpleasant smells or unusual noises emanating from the monitor. The same applies if there is no picture on the screen when you switch on the monitor or during normal operation. Never attempt to continue using the monitor under these conditions.

Never attempt to open or repair the monitor. There are no components inside the monitor which you can repair or replace. In the case of a fault, consult your local dealer.

Cleaning and care

Incorrect use and cleaning can cause irreparable damage to the monitor. You should therefore observe the following instructions for the cleaning and care of the monitor.

Handling:

Take great care when handling the screen surface.

Avoid all possible mechanical damage which could result from shocks, pressure, scratches, etc.

Do not touch the screen with sharp or hard objects.

Keep the screen clean.

Care and cleaning:

Before cleaning the monitor, switch it off and disconnect the mains cable from the outlet socket.

The screen may be cleaned only with a dry soft cloth (such as a microfleece duster). If the screen is very dirty, it may be cleaned with a soft cloth moistened slightly with water. Take care that no water or other liquids drips into the monitor, since this can damage it.

Immediately disconnect the mains cable from the outlet socket if foreign objects, such as water, other liquids, metal objects, etc., fall into the monitor. Never attempt to insert objects of any kind into the monitor and never place your hands inside the monitor, since this can result in an electric shock.

Batteries

If swallowed, batteries can cause serious injuries. For this reason, keep batteries out of reach of children. If someone swallows a battery, consult a doctor immediately.

Remove exhausted batteries immediately from the remote control, since they may leak and damage the remote control

The batteries enclosed with the monitor may not be recharged, reactivated by any means, taken apart, thrown into a fire or short-circuited.

Exhausted batteries must be disposed of in accordance with local regulations.

Other important notes

Note that the monitor is still connected to the mains voltage when it is switched to standby mode. In order to disconnect it completely from the mains voltage, move the mains switch to the position "O" and/or disconnect the mains cable from the outlet socket.

For ergonomical reasons, it is not advisable to use red or blue fonts or other symbols on a dark background, since the resulting low contrast can result in eyestrain for the user. Wherever possible, select a high-contrast display such as black text on a white background.

In order to avoid eyestrain, the recommended viewing distance is about five to six times the screen diagonal dimension. The illumination in the room should be bright enough to permit reading. If the room is too bright, the screen contrast will be reduced. If the room is too dark, rapid changes in the brightness of the screen display can strain your eyes.

If you wish to connect external loudspeakers, make sure that these comply with the technical data of the loudspeaker output. If the external loudspeakers are too small, the loudspeakers and/or the integrated amplifier may be damaged.

The packing materials used for the monitor are suitable for recycling. When they are no longer needed, dispose of them accordingly.

3. Overview

The TFT monitor offers a multitude of connections for external devices such as personal computers, DVD players, video recorders, video cameras, etc.

Regardless of whether the pictures come from the TV receiver, a video recorder or a PC, they are displayed with high resolution and free of distortion on the absolutely flat screen. The screen display is extremely bright and unusually brilliant. Other important features of the monitor are the large size of the screen, with an aspect ratio of 15:9, and the very flat design.

For the reception of TV programmes, a terrestrial antenna, a SAT receiver or a cable receiver is needed.

The monitor is operated interactively with the aid of the enclosed remote control and the on-screen display (OSD), also called the menu. This can be used to make various settings for optimum picture quality.

An innovative cooling system permits the operation of the TFT monitor without the need for noisy fans. The monitor is thus just as quiet as a conventional TV set and ideal for use in living rooms and conference rooms.

Features

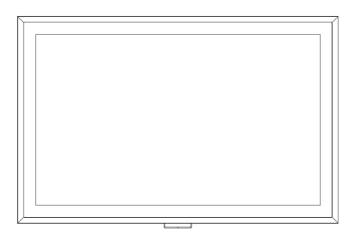
- High-quality aluminium case
- Fan-free design
- Screen diagonal 100 cm
- 15:9 aspect ratio
- Viewing angle, horizontal/vertical 170 degrees
- Digital comb filter
- Compatible with PAL, SECAM and NTSC
- Compatible with VGA, SVGA, WXGA, XGA and SXGA
- Teletext
- Automatic programme identification
- Sleep timer
- 2 x SCART connectors
- 1 x S-Video (mini DIN)
- 1 x Cinch (FBAS video (CCVS))
- 1 x DVI (I) (analogue and digital)

3.1 Scope of Delivery

Immediately after receipt, inspect your new TFT monitor for possible transport damage and check that all parts have been delivered. The supplier can accept your claims for transport damage only if you inform him of this before putting the monitor into service for the first time. If anything is missing, please call our service hotline. Keep the packing materials for re-use if you have to transport the monitor again.

Standard scope of delivery

1 x TFT monitor

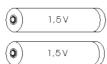


Standard accessories in accessory box

1x remote control



2x batteries LR03



1x mains cable, 2.5 m long

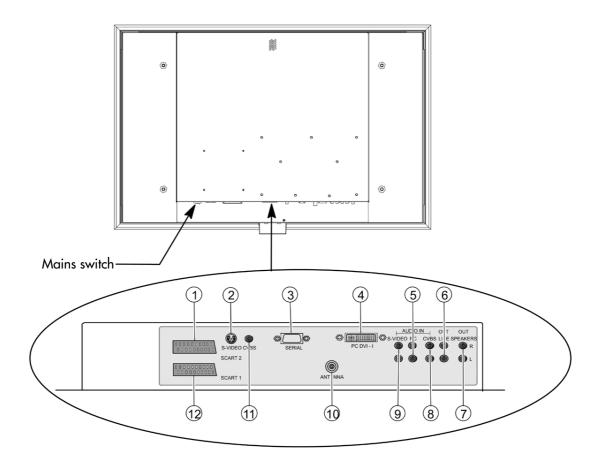


1x video cable, HD-Sub to DVI-I, 2.0 m long



Operating Instructions

3.2 Connections



- 1 SCART 2 e.g. for connection of a video recorder
- 2 S-VIDEO (Y/C) e.g. for connection of a camcorder with S-Video connector
- 3 SERIAL RS232 interface for service purposes
- PC DVI-I PC input connector (RGB for analogue signals, DVI for digital signals). If your PC has an analogue VGA output, use the enclosed video cable DVI-I to 15-pin HD-Sub for connecting it to the monitor.
- (5) AUDIO IN PC e.g. for connection of an audio signal from a PC with line-out connector
- 6 OUT LINE e.g. for connection of an audio amplifier or a DVD receiver
- 7 OUT SPEAKERS sockets for external loudspeakers (The loudspeaker output provides a power of 2 x 7W sinusoidal into 4Ω .)
- (8) AUDIO IN CVBS e.g. for connection of a camcorder to the Video-In socket
- AUDIO IN S-VIDEO e.g. for connection of a camcorder to the S-Video socket
- (10) ANTENNA socket for the TV antenna signal (terrestrial antenna or cable outlet)
- (1) CVBS e.g. for connection of a camcorder to the Video In socket
- (2) SCART 1 e.g. for connection of a satellite receiver

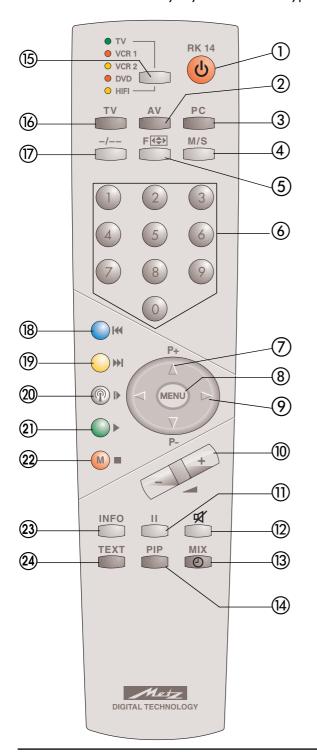
3.3 Keys and Functions of the Remote Control

Before you can control your TFT monitor with the remote control, you must plug it into a mains socket and switch it on with the mains switch.

The infrared remote control will operate correctly only if there are no physical obstacles between it and the infrared sensor located at the bottom of the front side of the monitor. The maximum range of the remote control is about 7 metres.

It may happen that the monitor cannot receive the signals from the remote control, or that the range of functions is greatly restricted, although there are no obstacles in the way. In such cases, please reduce the distance between the monitor and the remote control.

As the batteries become weaker, the range of the remote control will be reduced. In such cases, fit new batteries in the remote control. Use only dry batteries of the type LRO3 AAA 1.5 V.



- 1 OFF (standby)
- (2) Direct selection, video mode
- (3) Direct selection, PC mode
- 4 MONO/STEREO changeover
- S Aspect-ratio switching
- 6 Numeric keys 1 -9, 0
- 7 P+ / P- programme step
- (8) Open TV menu
- (9) Volume adjustment, Cursor left/right key
- (10) Volume adjustment
- (11) TV: freeze frame; TT: page hold
- (12) Mute
- (13) TV: display time
- (4) PIP (picture in picture, PC mode only)
- (15) SELECT: selection key for external AV devices
- (back to TV picture from, for example, DVD, PC, etc.)
- (7) Selection key for two-digit programme-position numbers
- (18) Teletext: next subject
- (19) Teletext: next chapter
- 20 Open station table
- (21) Teletext: 1 page forwards
- Memory save menu settings Teletext: 1 page back
- (23) Info key for display of station logo and sound mode
- 24 Open/close Teletext

3.3 Keys and Functions of the Remote Control

Programming the remote control for the individual devices

Before you can control your AV devices with the remote control, you must enter a three-digit code number in each of the various operating levels of the remote control.

• TV (TV set)
The TV control level i

The TV control level is already programmed for this Metz TV set. No other code can be entered.

VCR1 (video recorder 1)

VCR 2 (video recorder 2)

DVD player

HiFi (amplifier, tuner, tape deck, etc.)

The remote control must be programmed with the appropriate code numbers, as shown in the code list.

See the factory settings and the code list at the end of these operating instructions.

Programming the codes for VCR and DVD

- After execution of the steps a). . . c), you have about 15 seconds to enter the code. After this, the TV automatically returns to the TV level.
- a) Use the Select key (5) to select the desired operating level. The LED for the selected level lights.
- b) Press and hold the keys ound --/- on the remote control until the LED blinks twice.
- c) Enter the desired code (see the code list) with the numeric keys. If the code is accepted, the LED again blinks twice. If you have entered an invalid code, the LED lights once for about 2 seconds.

Programming the codes for CD player, tuner and tape deck

- After execution of the steps a). . . c), you have about 15 seconds to enter the code. After this, the TV automatically returns to the TV level.
- a) Use the Select key (5) to select the desired operating level. The LED for the selected level lights.
- **b)** Press and release the 60 key and then press and hold the key:

--/- for a CD player

for a tuner (radio)

M/S for a tape deck (cassette player)

until the LED blinks twice.

c) Enter the desired code (see the code list) with the numeric keys. If the code is accepted, the LED again blinks twice. If you have entered an invalid code, the LED lights once for about 2 seconds.

Programming the code for a HiFi amplifier

- After execution of the steps a). . . c), you have about 15 seconds to enter the code. After this, the TV automatically returns to the TV level.
- a) Use the Select key (5) to select the HiFi operating level. The HiFi LED lights.
- b) Press and release the (b) key and then press and hold the M/S key until the LED blinks twice.
- c) Press the --/- key. The LED blinks once.
- d) Enter the desired code (see the code list) with the numeric keys. If the code is accepted, the LED again blinks twice. If you have entered an invalid code, the LED lights once for about 2 seconds.

Searching for the code

Proceed as described above for VCR, DVD, CD, tuner, tape deck up to the point where the code number is to be entered. Now enter "001" as the code for the search operation. The LED then blinks twice as an acknowledgement of the input. Press and hold the Search key (which depends on the operating level; see the table) until the search stops or the TV is switched off (a STOP or OFF command is automatically generated every 1.5 seconds). Release the Search key and press the Select key (5) to confirm the selection (the code which was found is saved). After completion of the search, or after all code numbers have been interrogated, the related LED blinks five times.

Determining which codes are already programmed (read-out mode)

- After execution of the steps a). . . c), you have about 15 seconds to enter the code. After this, the TV automatically returns to the TV level.
- a) To determine which code is programmed for an operating level, first execute steps 1.1 a) to b).
- b) Then enter the code 002 with the numeric keys. The LED blinks twice to acknowledge the input.
- c) Press numeric key 1 to display the first digit of the code. The LED blinks to display the digit (example: LED blinks three times the digit 3 is programmed).
- d) Press numeric key 2 to display the second digit of the code. The LED blinks to display the digit (example: LED does not blink the digit 0 is programmed).
- **e)** Press numeric key 3 to display the third digit of the code. The LED blinks to display the digit (example: LED blinks seven times the digit 7 is programmed).

The code previously programmed for this level is thus 3 0 7.

If you lose count of how many times the LED blinks, start again at step 2c).

	(ey	VCR 1/2	DVD		HiFi	
"	Key	VCR 1/2	D V D	CD (F1)	TUNER (F2)	TAPE (F3)
1	Off	Stand-by	Stand-by	ON: Display Time/Track ON & AV, EIN:on/standby	ON: Radiotext on/off ON & AV, Ein: on/standby	
2	AV	AV - input	Repeat	AUX input	AUX input	AUX input
3	PC	Record	Return			
4	M/S		Subtitle	F3 & ON: tape input	F3 & ON: tape input	
(5)	F(\$)		Audio	F2 & ON: Tuner		F2 & ON: Tuner
6	09	Num. keys: select programme	Numeric keys: select title	Num. keys: select title	Num. keys: select progr.	
7	P +/-	Programme +/-	Cursor up/down	Titele +/-	Programme +/-	
8	Menu	Menu	Menu / Enter			
9	<>	Fast forward / rewind	Cursor left/right		Frequenz +/-	
10	Vol.+/-	Volume +/- TV	Volume +/- TV	Volume +/- AMP	Volume +/- AMP	Volume +/- AMP
11)	П	Pause	Pause	PAUSE		
12	Mute	Mute TV	Mute TV			
(14)	PIP	Switching voltage on/off	Title			
(15)	Select	Select operating level	Select operating level	Select operating level	Select operating level	Select operating level
16	TV					
17	/-	Time in display	Angle		F1 & ON: CD	F1 & ON: CD
18	Blue		Skip –			
19	Yellow		Skip +			
20	White	Slow-motion	EJECT			
21)	Green	PLAY	PLAY	PLAY		
22	Red	STOP / Search	STOP / Search	STOP / OPEN-CLOSE / Search	Numeric key ② =Search	Search
23	Info	INFO, TV set*	INFO, TV set*	INFO, TV set*	INFO, TV set*	INFO, TV set*
24)	Text		Display			

^{*)} Available soon: when the TV set is on, hints for the selected operating level are displayed.

Note:

The assignments of the remote control keys to the device functions are valid only for the AV devices programmed in the factory. If other AV devices are used and programmed as shown in the table, the assignments may differ and/or restrictions may apply.

Search:

Execute the programming procedure for VCR, DVD, CD, tuner, tape deck up to the point where the code number is to be entered. Then enter the code number "001" for the search function. The LED blinks twice. Press and hold the Search key (depends

on the operating level, see table) until the TV stops or switches off (an OFF or STOP command is automatically generated every 1.5 seconds).

Release the Search key and press the Select to confirm the selection, The selected code is saved.

Reset

Execute the programming procedure for VCR, DVD, CD, tuner, tape deck up to the point where the code number is to be entered. Then enter the code number "000" for the reset function. The LED blinks twice. All codes have now been reset to the factory settings.

The reset is executed simultaneously for all operating levels, regardless of the level from which the operation is executed.

4. Putting into Service



Switch off all devices, including the TFT monitor, before making any connections between them.

4.1 Unpacking and Positioning

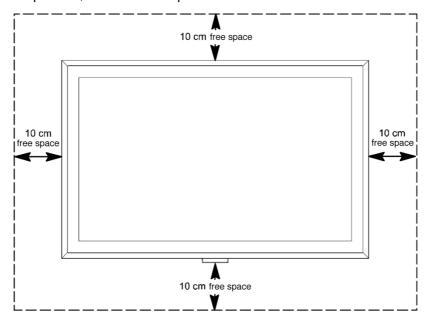
Selecting the installation position

Viewing direction

• Although the TFT monitor has a very wide viewing angle, the picture will be best if you view it directly from the front. You should therefore adjust the position of the monitor to match the most frequently used viewing direction.

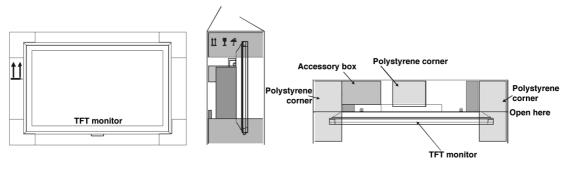
Position

- Reflected light
 Avoid positioning the monitor directly opposite windows or other light sources
- Access to the mains input
 The mains input and the mains switch should be easily accessible at all times.
- Ventilation
 Ensure that there is a space of at least 10 cm, above and below the ventilation openings, between the monitor and any other pieces of furniture, walls, etc.
- Ambient temperature
 For safe and reliable operation, the ambient temperature must lie between 5°C and 35°C.



Unpacking

Place the cardboard box upright on a firm surface. The arrows on the ends of the box point to the top of the box.



- Remove the adhesive tape from the top of the box and fold the top flaps of the box outwards.
- Remove the two polystyrene corner blocks and remove the accessory box. The accessory box is located at one end, on the rear side of the monitor.



Before removing the monitor from its box, assemble the table-foot1), the wall bracket1) or the glass console1) and place it in the intended installation position.



Never attempt to lift the monitor on your own, since this can cause injuries. Always obtain assistance from a second person when removing the monitor from its box.

Never stand the monitor directly on its base, since the infrared sensor is mounted there and will be damaged.

4.2 Wall Mounting (possible only with the wall bracket 11)



Non-compliance with the following instructions can result in serious injuries to persons and/or irreparable damage to the monitor.

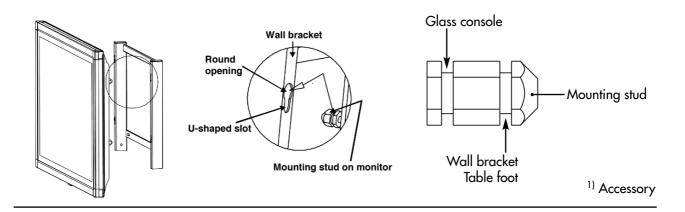


The TFT monitor may be mounted only on a vertical wall, using the wall bracket¹⁾. Always obtain assistance from a second person when installing the wall bracket and placing the monitor on it.

- Take great care when installing the wall bracket, since it must not only support the weight of the monitor but also withstand vibrations, shocks, etc.
- Before installing the wall bracket, check the thickness and stability of the wall. Purchase suitable metal screws
 and wall plugs from a DIY shop. We recommend using screws with a diameter of 8 mm.
- The wall must be solid (made of normal bricks, lime sand bricks or concrete) and capable of supporting the weight of the monitor.
- For walls made of other materials, such as wood, and for hollow walls, have the wall bracket installed by an experienced handyman.

Wall mounting with the wall bracket 1)

- The wall bracket 1) consists of two vertical metal strips, connected together by horizontal strips, and provides the connection between the monitor and the wall.
- A drilling template can be found in the accessory box. Use this template to drill the necessary holes and secure
 the wall bracket to the wall. The manufacturer recommends using screws with a diameter of 8mm.
- Note that the monitor will sink by about 19 mm, compared with the position of the bracket, when it is mounted on the bracket.
- After installing the bracket, check that it is securely mounted.
- After the bracket1) has been installed, you can hang the TFT monitor on it.
- There are four mounting studs on the back of the monitor. Insert all four studs into the large round openings in the wall bracket and lower it so that the studs slide into the U-shaped slots.

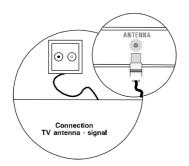


4.3 Connecting and Switching On

Connecting (see the picture on page 8 for an overview of the connections)

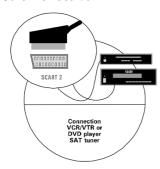
Insert the mains cable into the input socket on the monitor and plug the other end into an outlet socket.

• Cable outlet or terrestrial antenna



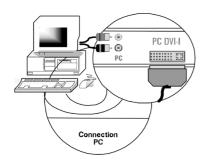
If you have a cable outlet or a terrestrial antenna, connect it to the socket ANTENNA.

Satellite receiver



If you have a satellite receiver, use a SCART cable to connect it to the socket SCART 1 or SCART 2.

• PC



To connect your PC to the TFT monitor, use the PC DVI-I socket. If your PC has an analogue VGA output, use the enclosed cable (DVI-I to 15-pin HD-Sub) to connect it to the monitor.

∧ Or blo

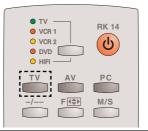
On some older PC graphic cards, pin 9 of the connector may be blanked off. If this is the case, please contact your local dealer.

Preparation

- Remote control
- Open the battery compartment on the back of the remote control and insert the two batteries supplied with the monitor (type LR03 Micro AAA). Observe the battery polarity shown on the bottom of the battery compartment. Close the battery compartment again.

Switching on

- Set the mains switch on the back of the monitor to the position "I". The monitor is now in standby mode and can be switched on with the remote control.
- Cable outlet or terrestrial antenna
- Switch on the monitor by pressing the TV key or one of the numeric keys on the remote control.



- Satellite receiver
- Switch on your satellite receiver and press the **AV** key on the remote control to switch on the monitor. Note that you may have to press the **AV** key several times, depending on the SCART socket to which your receiver is connected.



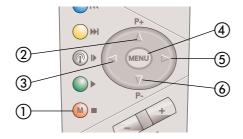
• PC

Switch on the monitor by pressing the **PC** key on the remote control and then select the appropriate signal input (PC(RGB) or PC(DVI)). To do this, press the **MENU** key on the remote control to open the TV menu of the monitor and select the desired input signal in the submenu INPUTS > SOURCE.



4.4 Using the TV Menu

You can set up and operate your TFT monitor with the aid of the simple menu control system. This is done with six keys on the remote control:



- M key
 Saves any changes you have made.
- (2) P ▲ key Moves upwards in the TV menu. The selected sub-menu or function is marked with a different coloured background. If functions are displayed as values or bars, you can increase the value with this key.
- ③ P ◀ key Back to the previous menu. Exit from the currently selected sub-menu or function.
- MENU key Opens the TV menu. The main menu is displayed at the top left corner of the screen. Pressing the MENU key again closes the TV menu.
- ⑤ P ▶ key Activates the selected sub-menu or function. The selected menu item is displayed on a green background and can be changed.
- 6 P ▼ key Moves downwards in the TV menu. The selected sub-menu or function is marked with a different coloured background. If functions are displayed as values or bars, you can decrease the value with this key.

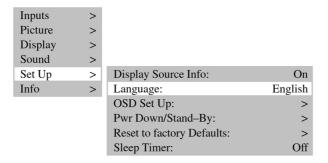
Saving changes

Any changes you have made in the TV menu are saved by pressing the **M** key on the remote control (see picture above) or by closing the TV menu.

4.5 Basic TV-Menu Settings

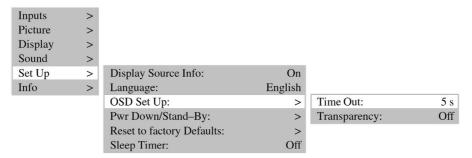
Menu language

Your monitor can display the TV menu in any of six languages (German, English, French, Italian, Dutch or Spanish). To change the preset language, open the main menu and select the menu item SETUP. In the sub-menu, activate the menu item LANGUAGE and select the desired language:



Changing the menu properties

To change the display of the TV menu or the time it remains displayed if you make no further entries, open the main menu and select the menu item SETUP.



Info signal source:

On: an information window is displayed whenever you change the signal source.

Off: no information is displayed.

OSD settings:

Wait time: 5, 10,15 seconds or Off (close with MENU key).

Transparent: OSD semi-transparent (On) or not transparent (Off)

ECO mode/standby

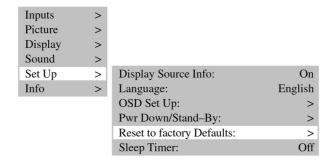
Logo display does not function on model 040TK81.

Sync-signal evaluation (for PC input only)

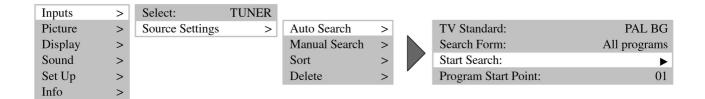
Options: the monitor does not switch itself off automatically (Off) or switches automatically after a few minutes to standby mode (On).

Resetting to the factory settings

If desired, you can reset all changes you have made in the TV menu to the original factory settings. To do this, open the main menu and select SETUP. In this sub-menu, activate the menu item USE FACTORY SETTINGS.



Automatic station search

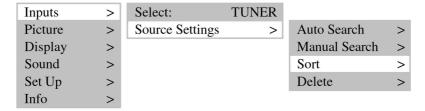


- Press the **TV** key **(6)** to switch on the monitor.
- Press the **MENU** key (8) to open the TV menu.
- Use the cursor key ▶ to move to the sub-menu "Inputs".
- Use the cursor key ▼ to select "Setup".
- Use the cursor key ▶ to move to the sub-menu "Settings".
- Use the cursor key ➤ to move to the sub-menu "Auto. Search".
- Use the cursor key ➤ to move to the settings for the "Auto. Search".
- Set the TV standard, if necessary, by using the cursor keys ➤ and ▼ to select the desired standard and pressing
 the cursor key ◀ to accept it.
- Set the search mode:
 - a. All stations: the search places all receivable stations in the station table and sorts them.
 - b. New stations: the search adds all stations which are not yet in the station table and sorts them. Use the cursor key \blacktriangledown to move to "Search mode" and press the \blacktriangleright key to activate it. Then use the cursor key \blacktriangledown to select the desired search mode and press the cursor key \blacktriangledown to accept it.
- Define the starting position: use the cursor key ▼ to select "First programme position" and activate it with the key. Then enter the desired first programme position with the numeric keys 0-9.
- Start the search: use the cursor key ▼ to select "Start search" and press the cursor key ▶ to start the search.
- The tuner now searches for stations, places them in the station table and sorts them. The search can be stopped at any time by pressing the red key.
- After completion of the search, the monitor is set to programme position 1 and the station table is closed.
- You can open the station table with the white key.

Sorting the TV stations

Note: before sorting the station table, you should delete any stations you do not need!

- 1. Press the **TV** key (6) to switch on the monitor.
- 2. Press the **MENU** key (8) to open the TV menu.
- 3. Use the cursor key ▶ to open the sub-menu "Inputs".
- 4. Use the cursor key ▼ to select "Settings".
- 5. Use the cursor key ▶ to open the sub-menu "Settings".
- 6. Use the cursor key ▼ to select "Sort".
- 7. Use the cursor key ▶ to open the sub-menu "Sort".



ARD	ZDF	BR3	RTL	SAT1	RTL2	PRO7	VOX	KABEL	WDR	
G	Green key: Select a station. Current : 99 Menu: Close									
Blue key: Insert an empty programme position										
Ye	Yellow key: move selected station to selected position									

- 8. Select the station you want to move with the cursor (white field) and confirm your selection with the green key. As a check: see the station number after "Current".
- 9. Use the cursor keys to select the desired new position for this station and press the yellow key to move the previously selected station there.
- 10. Repeat steps 8 and 9 for any other stations you wish to move.
- 11. When sorting the station table, it may be useful to insert an empty programme position with the blue key.
- 12. When you are finished, press the MENU key to exit from the sort function.

Deleting stations

- 1. Press the **TV** key (6) to switch on the monitor.
- 2. Press the **MENU** key (8) to open the TV menu.
- 3. Use the cursor key ▶ to open the sub-menu "Inputs".
- 4. Use the cursor key ▼ to select "Settings".
- 5. Use the cursor key ▶ to open the sub-menu "Settings".
- 6. Use the cursor key ▼ to select "Delete".
- 7. Use the cursor key ▶ to open the sub-menu "Delete".
- 8. Deleting stations:

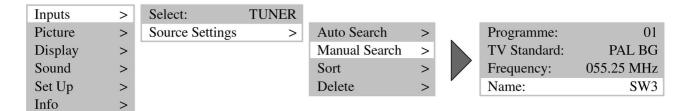
- 9. Deleting a single station: select the station to be deleted with the cursor key and press the **red** key to delete it.
- 10. Deleting several contiguous stations: select the first station you want to delete and press the green key. Then select the last station you want to delete and press the **yellow** key. Press the **blue** key to delete the entire block of stations.
- 11. When you are finished, press the **MENU** key ® to exit from the "Delete stations" window.

Changing the station names

If your TFT monitor can determine the station name from the TV signal, this name is saved at the selected programme position. If the station name cannot be determined, the number of the programme position is saved in the programme position (e.g. PRO2).

To change the saved station names, proceed as follows:

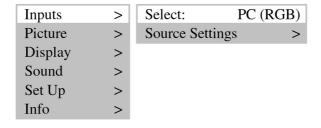
- Use the cursor key ▼ or ▲ to select the menu item "Name".
- Press the cursor key > to select the first character of the name.
- Use the cursor keys ▼ or ▲ to scroll through the character set until the desired character appears at the selected character position.
- Press the cursor key ➤ to move to the next character of the name.
- Repeat the above three steps until you have entered the desired name.
 Note that the name may not be longer than five characters.



PC mode

Selecting the signal input

- Press the PC key on the remote control to switch on your monitor.
- Press the MENU key on the remote control to open the TV menu.
 The menu item "INPUTS" is coloured.
- In the sub-menu "SOURCE", select the appropriate signal input [PC (RGB) or PC (DVI)].

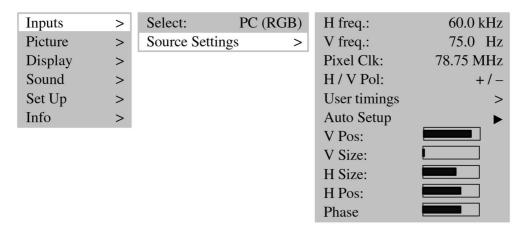


Auto-adjust function

The first time an analogue video format (RGB) is used, the TFT monitor automatically executes the auto-adjust function. While this is running, the display on the screen moves back and forth slightly in order to determine the optimum position and display format.

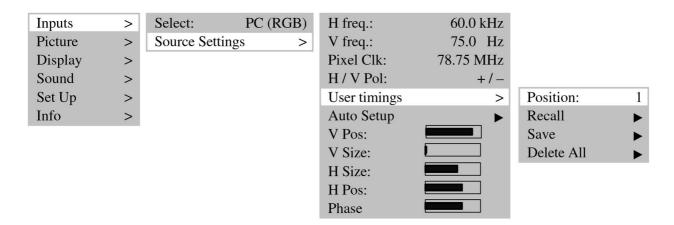


For some PC formats, the H/V (horizontal/vertical) position and the picture size have to be adjusted manually. The auto-adjust function depends to a great degree on the picture being displayed. The best results will be obtained with a full-screen display of a plain white picture.



You can save frequently used formats as so-called user formats. The monitor recognises such saved formats and immediately uses them automatically without executing the auto-adjust function. To do this, proceed as follows.

- In the main menu, select the menu item "INPUTS" and then open the sub-menu "SETTINGS".
- Activate the menu item "User formats".
- Use the menu item "CALL" to determine the currently selected user format. Now you can save this user format in one of the eight available positions by executing the menu item "SAVE".



5. Day-to-Day Operation

5.1 Switching On and Off

Switching on

- Turn on the power for the TFT monitor by setting the mains switch to the position "I".
- The standby LED on the infrared sensor lights (red).
- Press any of the numeric keys or the "TV" key on the remote control to switch the monitor to TV mode.
- The ready LED on the infrared sensor lights (blue).

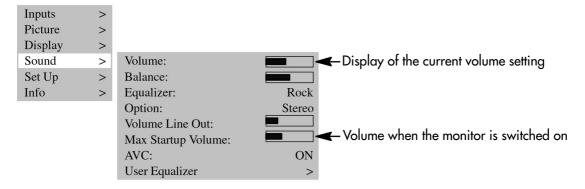
Switching off

- Press the OFF key on the remote control to switch the monitor back to standby mode.
- The standby LED on the infrared sensor lights (red).
- To completely switch off the TFT monitor, set the mains switch to the position "O".

5.2 Adjusting the Sound

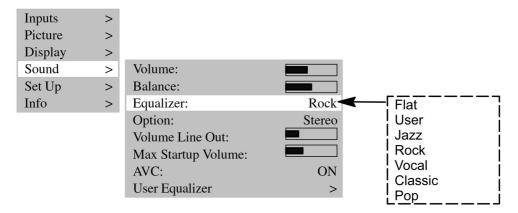
Adjusting the volume

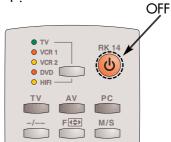
• Press the - (Vol -) or + (Vol +) key 10 on the remote control to set the volume to the desired level.



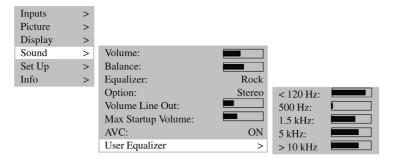
Sound settings

With the menu item "EQUALIZER", you can select predefined sound settings.





To make your own individual settings, select the option "USER".



Mute function

• Press the 🛱 key on the remote control. The sound is muted and the following info window is displayed on the screen for about three seconds:

TUNER: 2 ZDF MUTE

• To switch the sound on again, press the

key again or press the − (Vol -) or + (Vol +) key

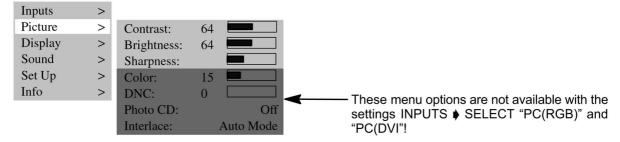
on the remote control. The following info window is displayed on the screen for about three seconds:

TUNER: 2 ZDF STEREO

5.3 Adjusting the Picture

You can adjust the contrast, brightness, sharpness and colour of the picture to any desired values.

- Press the ▲ key to increase the value or the ▼ key to decrease it.
- The setting "SHARPNESS" permits you to adjust the sharpness of the picture.
- The menu item "COLOUR" (not available in PC mode) permits you to change the colour intensity:



Hue (available only for an RGB input signal via Scart1)

If you wish to change the hue of the picture delivered via the AV programme position "Scart1", select the menu item "Hue". Pressing the cursor key ▲ will make the picture greener, and pressing the cursor key ▼ will make it redder. In this case, the colour control has no effect.

DNC (Digital Noise Control)

In the case of a very noisy signal, the background noise can be reduced with the DNC function.

Photo CD (not available in PC mode)

The appearance of still pictures such as JPEG photos from a DVD player can be optimised by setting "Photo CD" to ON.

Interlace

When using signal sources which generate non-interlaced signals, better results may be obtained by setting this function to OFF.

Aspect ratio

You can use the menu item DISPLAY > FORMAT > ZOOM to select one of several pre-defined aspect ratios.

The menu item USER ZOOM permits you to define your own user aspect ratio. To activate this setting, select the menu item ZOOM and then USER ZOOM.

- Fullscreen
 - If this setting is selected, the width and height of the picture are adjusted so that the picture always fills the entire screen.
- Video 4:3

This setting displays a PAL 4:3 picture with the correct aspect ratio. Dark bars are visible at the left and right edges of the screen.

Auto

Wide-screen pictures are automatically displayed so that they fill the screen.

Video NLS (Non Linear Scaling)

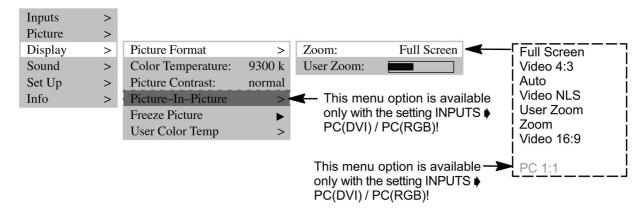
With this setting selected, the width and height of the picture are automatically adjusted to fill the entire screen, but the expansion is not linear. In other words, the centre part of the picture is displayed correctly but the outer parts are expanded to an increasing degree towards the edges of the screen.

User zoom

With this setting, you can define your own aspect ratio within the range of 40% to 140 % of the original picture size.

- Zoom
 - Switching manually from the aspect ratio Video 4:3 to zoom expands the picture vertically and horizontally by about 20% more than the fullscreen display. This reduces the dark bars which appear at the top and bottom edges of the screen when watching a widescreen film transmitted in the aspect ratio 4:3.
- Video 16:9

This setting displays a PAL 4:3 picture so that no dark bars are visible at the left and right edges of the screen.



You can switch between the various aspect ratios by repeatedly pressing the F key on the remote control.

5.4 TV Mode

The TFT monitor is in standby mode.

- To switch it on, press the **TV** key on the remote control.
- The station (programme position) you were watching when the monitor was last switched off now appears on the screen and the following info window is displayed for about 3 seconds:
 TUNER: 2 ZDF

• Press the P▲ or P▼ key ⑦ to step to the next or previous programme position, respectively.

• You can also select a programme position directly with the numeric keys (or with the preselection key and the numeric keys for two-digit programme position numbers).

STEREO

Teletext

There are three types of Teletext information which can be received with the TFT monitor: FLOF (Fasttext), TOP-Text and Level 1.5.

- Select a station which transmits Teletext.
- Press the **TEXT** key on the remote control to display the Teletext information.
- Use the numeric keys for direct selection of the desired Teletext pages.
- Depending on the type of Teletext being received, the red, green, yellow and blue keys have different functions. These functions are shown at the bottom of the Teletext window.
- To close the Teletext window, press the **TEXT** key on the remote control again.

Displaying Teletext subpages

Subpages are the individual pages of a multiple Teletext page.

- Select the desired Teletext page (e.g. ARD Teletext, Page 743).
- Press the -/-- key (17).
- Enter a four-digit number (e.g. 0004) to select the desired subpage.
- If the desired subpage is not displayed within a short period, press the MENU key to return to the TV programme.
- When the desired subpage has been found, its number is displayed at the top left corner of the screen.
- To display the selected page, press the MENU key again.

5.5 PC Mode

- Ensure that the TFT monitor and the PC are both switched off.
- Connect your PC to the TFT monitor with the enclosed video cable, inserting the DVI plug into the monitor and the HD-Sub plug into the PC.
- Switch on the TFT monitor and the PC.
- In the menu item "INPUTS-> SOURCE", you can select the appropriate input signal from the PC:
 - a) analogue RGB-Signal: select PC(RGB)
 - b) digital DVI signal: select PC(DVI)

When the TFT monitor is switched on, it automatically detects the picture format which is set on the PC. This information is shown in an Info window.

RGB-1024 x 768 Fullscreen

5.6 Operation with External Devices

Video recorder

• Ensure that the TFT monitor and the video recorder are both switched off.

There are three ways of connecting a video recorder to the TFT monitor:

- via the antenna input (see the operating instructions for your video recorder);
- with a SCART cable connected to input SCART1 or SCART2;
- via the Y/C input if your video recorder has an S-Video output.
- Switch on the TFT monitor and the video recorder.
- To switch to the input where your video recorder is connected (such as SCART1), press the **AV** key several times.

SCART 1 Fullscreen

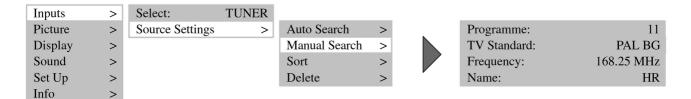
DVD player

- Ensure that the TFT monitor and the DVD player are both switched off.
- Connect your DVD player to the SCART1 socket or, if the player has an S-Video output, to the Y/C input.
- Switch on the TFT monitor and the DVD player.
- To switch to the input where your DVD player is connected, press the **AV** key several times.

SCART 1 Fullscreen

5.7 Special Functions

Manual station search



- 1. Press the **TV** key to switch on the monitor and press the **MENU** key.
- 2. Use the cursor key ▶ to open the sub-menu "Inputs".
- 3. Use the cursor key ▼ to select the sub-menu "Settings" and press the ▶ key to open it.
- 4. Use the cursor key ▼ to select the sub-menu "Manual search" and press the ▶ key to open it.
- 5. Use the cursor key ▶ to open the settings for the "Manual search".
- 6. Select the programme position:

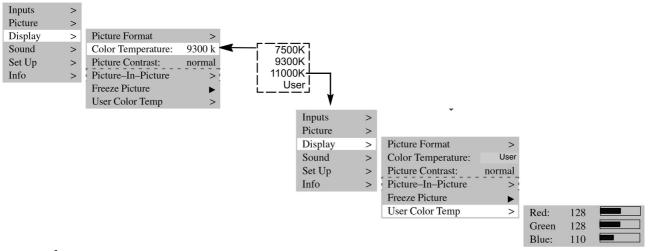
 Use the cursor key ▼ to select the desired programme position and press the ▶ key to activate it. Alternatively, enter the number of the desired programme position with the numeric keys.
- 7. Select the TV standard:

 If necessary, use the cursor keys ▶ and ▼ to select the TV standard and press the ◀ key to confirm your selection.
- 8. Frequency: Use the cursor key ▼ to select the frequency and press the ▶ key to activate it. Alternatively, enter the desired frequency with the numeric keys.
- 9. Name: You can enter a name for the programme position. To do this, use the cursor key ▼ to select "Name" and press the ▶ key to activate it. Use the ▼ key to select the desired character and press the ▶ key to move to the next position. When you are finished, press ◀ ▶ to accept the input.
- 10. Press the **MENU** key to exit from the manual search.
- 11. You can display the station table by pressing the white key on the remote control.

Colour temperature

You can select one of three pre-defined colour temperatures or use the menu item COLOUR TEMPERATURE > USER to define your own value.

A lower colour-temperature value increases the red component of the picture and makes it look "warmer". Higher values increase the blue component of the picture and make it look "colder".



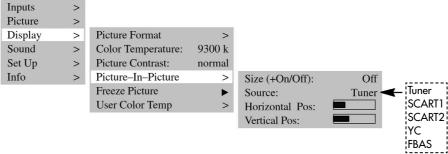
Freeze frame

You can freeze on the current frame by pressing the II key or with the menu item FREEZE FRAME.

Picture-in-picture

The picture-in-picture (PIP) function permits you to display a video picture in a small window while displaying signals from a PC.

- The menu item "Picture-in-picture" can be found in the menu INPUTS > SOURCE > PC(DVI) / PC(RGB) and is used to select the source of the picture in the small window. The PIP key is used to activate the function.
- Press the **PIP** key to display the picture from the input selected under DISPLAY > PICTURE-IN-PICTURE > SOURCE (such as the tuner) in a window within the currently displayed picture.
- If there is no signal connected to the selected input, a dark window is displayed in the current picture.
- You can change the size and position of the window by repeatedly pressing the PIP key.

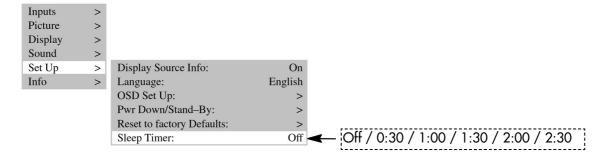


Automatic power-off

You can set the TFT monitor so that it switches itself off after a certain time.

Select one of the pre-defined times in the menu item POWER-OFF TIME.

The TFT monitor will switch itself off automatically after this time.



Switching between dual-language channels and between MONO and STEREO

Dual-language sound is the term for the method used to transmit films with a synchronised sound channel and the original sound channel. The viewers can then select which of these they want to hear.

When a dual-language programme is received, sound channel A is initially active.

To switch to channel B, press the M/S key.

When receiving a MONO programme, you can switch from MONO to PSEUDO-STEREO.

TUNER: 2 ZDF
Mono

Press the M/S key

TUNER: 2 ZDF
Pseudo Stereo

When receiving a STEREO programme, you can switch from STEREO to STEREO WIDE.

TUNER: 2 ZDF
Stereo

Press the M/S key

TUNER: 2 ZDF
Stereo wide

6. Troubleshooting

If a problem occurs while you are using the TFT monitor, please read the following fault symptoms and try out the suggested remedies before sending the monitor in for repair. In some cases, you can rectify the fault easily.

If, for example, the mains cable of the monitor is not plugged into an outlet socket, or if there is some problem with the antenna, you might assume (incorrectly) that the monitor itself is faulty.



If the following suggestions do not rectify the fault, switch off the monitor with its mains switch and disconnect the mains cable from the outlet socket. Never attempt to repair the monitor yourself. Under no circumstances should you remove the rear cover of the monitor.

DEFECT	POSSIBLE CAUSE	POSSIBLE REMEDY
No picture and no sound,	Mains switch in position "0" (OFF).	Shift mains switch to position "I".
although the mains plug is inserted and the unit is switched on.	 Mains plug of unit is not inserted into the socket. 	 Insert the mains cable plug into the socket.
	Defective mains cable.	
Screen dark.	Contrast setting too low.No input signal, wrong input selected.	 Set brightness and/or contrast correctly.
		Check the connection cable; assign correct input to source.
Weak or excessive colours.	Colour not correctly set.	Set the colour (under menu option PICTURE).
Colours.	 Connection cable not correctly connected. 	Connect the cable correctly.
The picture is cut off or the picture is not centred.	Picture position not correctly set.	Correct the picture position.
The picture is too large or too small.	Picture format set wrongly.	Repeatedly press button F until picture is displayed as full screen.
The remote control is not	 The batteries are flat. 	Insert the new batteries.
working.	 There is an obstruction between the remote control and the sensor. 	Remove the obstruction between the remote control and the sensor.
	 The remote control is located outside of its operating range. 	Operate the remote control within the specified range.
The displayed picture is too dark.	The picture quality is not set correctly.	Correct the picture brightness and contrast.
The picture is displayed, but there is no sound.	Volume off is switched on.Set volume to minimum.	Press the button on the remote control.
but there is no ocurra.	Set volume to minimum.	Increase the volume.
Individual letters are not		Set the phase correctly.
displayed (PC mode).		Check the setting for the picture width.
		Execute auto-adjust.
Horizontal stripes with TV or video signals.	 Signal source is set up before the display. 	Always place the signal sources on the side of or behind the display.
	 Screening of the video cable is insufficient. 	Use only a high-grade signal cable with a high screening attenuation.
To put all settings bac	k to basic status, use the menu option SE	TTINGS • CALL DEFAULT SETTINGS!

Temperature warning

If the TFT monitor gets too hot, a red warning window is displayed at the top left corner of the screen (see illustration on the left). If you do not provide the appropriate ventilation, the monitor may automatically switch to standby mode.

7. Technical Data

SCREEN

Size (diagonal): 39.6" (100 cm), aspect ratio 15:9

Displayable picture size: At least 862 mm (horizontal) x 517 mm (vertical)

Resolution: 1280 x 768 pixels

Colour display: 16.7 million colours simultaneously

Viewing angle: 170° (typical)
Contrast ratio: 600:1 (typical)
Noise output: ≤ 30 dBA

VIDEO STANDARDS

TV / video: PAL (BG, I, DK/K', M, L/L') / SECAM / NTSC

TV tuner: PAL / SECAM, 47 - 861 MHz (VHF, UHF, hyperband)
PALplus, Cinescope: Automatic aspect-ratio detection (fullscreen display)

Aspect ratios: 4:3, 16:9, Video NLS, fullscreen, zoom, user zoom (40% - 140%)

FREQUENCY RANGE (PC)

Horizontal frequency: 30 - 80 kHz Vertical frequency: 50 - 90 Hz

Clock frequency: 140 MHz (typical)

Typical resolutions: VGA (640x480) SVGA (800x600) WVGA (848x480) XGA (1024x768)

Frequency: 50Hz - 90Hz 50Hz - 90Hz 50Hz - 90Hz 50Hz - 90Hz

Typical resolutions: WXGA (1280x768) SXGA (1280x1024) UXGA (1600x1200)

Frequency: 50Hz - 75Hz 50Hz - 60Hz and many more

Formats: 1:1, fullscreen, full-format, zoom, user zoom

INPUTS / CONNECTORS / SYNCHRONISATION

PC/video input: RBG analogue with automatic sync detection

Video connectors TV Tuner: IEC, 75 Ohm input impedance

SCART1/2: RGB(1), composite-colour input and output,

audio input and output

Composite colour FBAS: RCA cinch Y/C: MiniDIN (HOSIDEN)

PC connector, analogue/digital: DVI-I

Audio connectors: Stereo input: 3 x Cinch 1Vrms (FBAS, Y/C, PC),

2 x SCART 1 Vrms

Stereo output: 2 x cinch, adjustable

Stereo loudspeaker output: 2 x cinch, 7 W sin into 4 Ohms

Synchronisation: Sync on green, composite sync with automatic detection,

separate H and V sync

Controls: Mains switch, local controls, IR remote control (6-language TV menu)

OPERATING CONDITIONS

Temperature: 5°C - +35°C (operation), -20°C - +60°C (storage)

Relative humidity: 10% - 85% (no condensation)
Altitude: max. 2,000 m (7,000 ft)

SUPPLY VOLTAGE

Mains voltage: 230V AC
Mains frequency: 50/60 Hz

Power consumption: 250 W (5 W in standby mode)

DIMENSIONS AND WEIGHT

H x W x D: 641mm x 972mm x 124mm

Weight: 25 kg

	Co	odes V	/ideo				Co	odes V	'ideo		
Metz VG61	532					CLASSIC	481				
VF21, VF44, VF46	332					CLATRONIC	466				
VF61, VE21, VE43						COLORTYME	547				
VE44, VE45, VD21						COLT	487	(1)			
VD43, VD44, VD45						CONDOR CONTINENTAL EDISON	466 503	616 504	505		
VC21, VC43, VC44						CRAIG	481	487	547		
VC62, 21VB11						CROSLEY	481	507	527	547	
42VB12, 21VA12						CROWN	487				
21VA13, 42VA11						CROWN	490 575	575	616		
64VA14, 9836,9837						CRYSTAL CTC	575 466				
9847, 9874, 9875						CURTIS MATHES	505	547			
9876, 9877						CYBEREX	547				
Metz VF22, VF47	568					DAEWOO	466	468	553	616	
VF48, 9843, 9844						DANSAI	487				
9849						DAWA DAYTRON	575 466				
						DE GRAAF	529				
Metz VH22, VH47	573					DECCA	528				
VH48						DECCAVIDEO	528				
Acres						DENON DIGITAL	527 477	481	505		
A CTION ADMIRAL	468 481	481 487	547			DORIC	601	401	303		
ADVANTZ	481	407				DTS	547				
ADVENTURA	468	481	547			DUAL	503	504	505	527	
ADYSON	487					DUEL	530				
AGHA AIWA	547 481	505	562	572	477	DUEL DUMONT	505 468	481	487	527	
AKAI	481	482	483	484	505	DYNATECH	487	401	407	327	
,	508	546	554	575	609	E CONOMIC	510				
	612					EDISON	487				
AKIBA	487	505				ELBE	616				
akura Alba	487 466	505 588	593			ELCATECH	487	<i>-</i> 17			
ALLORGAN	547	300	373			ELECTROHOME ELECTROPHONIC	481 481	547			
ALLSTAR	529					ELIN	547				
AMWAY	529					ELTA	487	616			
ANITECH ART TECH	487 575	490	529			EMERSON	481	50 /			
ASA	478	481	528			EPC ESC	505 466	586 510	598 616		
ASBERG	575		020			ETZUKO	487	310	010		
ASTRA	481	547				EUROPHON	586				
ASUKA ASUKA	481 527	487				EXPERT	604				
ASWO	528					F ERGUSON	501	505	523	524	
AUDIO DYNAMICS	505					FIDELITY	555	574	595	596	
AUDIOSONIC	575	616				FIDELITY FINLUX	487 468	477	478	528	
AUDIOTON	466					FIRST LINE	477	481	487	575	
AUDIOVOX AVIS	481 487	547				FISHER	468	473			
BAIRD	505	547				FUNAI	481	487	571		
BANG & OLUFSEN	503	583				G AB	487				
BASIC LINE	487					GBC	466				
BAUR	513	547	565	599		GE GEC	547 528	601	603	604	
BEAUMARK	607 547	609	612			GELOSO	466	301	500	504	
BELL & HOWELL	468					GITEM	575				
BESTAR	466	616				GOLDHAND GOLDSTAR	487 468	490 481	547	552	556
BLACK PANTHER	616	10.	500	50 -	500	COLDSIAK	408 575	481 610	J4/	JJZ	JJ0
BLAUPUNKT	491 527	496 530	502 532	507 607	508 609	GOODMANS	466	487	530	616	617
	610	612	614	621	007	00.4555	621				
BONDSTEC	466	487	Z. T			GRAETZ	468	505	600	603	542
BONDSTECBRANDT	505	50 :			57.4	GRANADA	468 557	474 565	477 575	532 601	542 605
BRANDT ELECTRONIQUE	503 570	504	505	524	574		606	616	5, 5	501	
BRAUN Brionvega	570 450	575				GRANDIN	481	487	604		
BROKSONIC	481	3, 3				GRUNDIG	451	452	453	454	457
BRUNS	466	487	490				458 463	459 464	460 491	461 492	462 493
BUSH	588	590	593				495	496	497	507	527
CALIN	481						530	531	563	584	585
CALIX CANDLE	481						600	606	609	610	611
CANDLE	481 547					GUTTRONIC	612 602	613			
CARVER	527					HANSEATIC		ETE			
CGE	505					MANSEATIC HANTAREX	481 575	575			
CIE CIMLINE	487 487	481	487	547		HARLEY DAVIDSON	481				
CLARIVOX	487 606	401	40/	54/		HARVARD	481	487			
						HCM	466	487	490		

	Co	odes V	/ideo				Co	des V	ideo		
HEADQUARTER	468					NEI	575				
HINARI	487	509				NESCO	487				
HINARIHITACHI	475	476	477	478	500	NIKKAI	466				
HITACHI	481 535	485 601	503 603	505 604	530	NIKKO NOBLIKO	481 606				
HYPSON	487	001	003	004		NOKIA	450	468	470	483	488
MPERIAL	510	575					489	503	504	505	510
INGERSOL	509						516	517	518	547	551
INNO HIT	510	547	575				553 601	554 603	557 604	567 500	600 503
INNO HIT INTERBUY	616 481	487					504	505	515	521	524
INTERDISCOUNT	575	40/					574	602			
INTERFUNK	468	527	565	575	600	NOVATRONIC	575				
	601	603	604			O CEANIC	483	489	601	604	
INTERVIDEO	466					OKANO	487				
INTERVISION IRRADIO	487 481	487	575	606		OLYMPIC OLYMPUS	466 507				
ITT	450	468	483	505		ORION	481	509	531	536	537
ITV	466	481	400	500		Cition	538	558	559	560	561
J ENSEN	505						589	591			
JETPOINT	575					OTTO VERSAND	527	474	493	496	508
JVC	503	504	505	519	520		512 575	513 599	541 609	544 610	565 611
IVC ICD	545 515	FO1					612	616	620	621	011
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KAISER	575					PALLADIUM	481	487	491	505	507
Kaisui Kapsch	487 600	601	603				508	527	532	533	549
KARCHER	575	001	003				600	601	623		
KENDO	483					PATHE MARCONI	503	505			
KENWOOD	468	505				PAXSONIX PENNEY	547 477	481	527	547	
KLH	481	487				PENTAX	477 477	401	32/	347	
KLIT KODAK	487 481					PERSHIN	606				
KORPEL	487					PHILCO	481	507	527	547	
KUBA	473	504	505	510		PHILIPS	481	491	507	528	
LEYCO	487					PHILIPS	529	530	547	548	
LG	578					PHILIPS PHILIPS	550 568	563 575	564 620	565 621	
LIESENKOTTER	575	565				PHILIPS	624	625	020	021	
LLOYD	481	487	547			PHILIPS (F)	491	565	575		
LLOYD'S LOEWE	601 481	606 491	575			PHONOLA	527				
LOEWE OPTA	481	491	527			PILOT	481	507	500		
LOGIK	487	509	547			PIONEER PRIMA	477 505	527 547	539	575	
LUXOR	468	478	483	517	518	PROFEX	487	490	529		
	601		40.			PROFILE	547				
LXI	468	477	481			PROSCAN	477	481	483	547	
MAGNADYNE	575					PROTEC	487	F 47			
M ELECTRONICS MAGNASONIC	547 470	481	487	547		PULSAR PULSER	481 468	547 481	547		
MAGNAVOX	481	507	527	547 547		PYE	565	575	547		
MAGNIN	481	547	OZ,	047		Q TY1	592	0, 0			
MAGNUM	581	582				QUARTER	468				
MANESTH	487	500	515	F.,,		QUARTZ	481	547			
MARANTZ MARQUANT	491 487	528 490	565	566		QUASAR	507	527			
MARTA	487 481	470				QUELLE	450 470	459 471	461 474	464 477	
MATRIX	481					QUELLE	470 478	47 I 484	4/4 487	4// 491	
MATSUI	486	509	560	561	562	COLLLE	496	497	503	504	
AAATCI ICI UTA	586	601	610				505	508	509	510	
MATSUSHITA MEDIATOR	527 527						512	513	519	528	
MEMOREX	327 468	481	547				529	541 404	565 404	575 400	
MEMPHIS	487	40 1	J-/				599 610	604 611	606 612	609 614	
MGA	547						616	621	012	014	
MGN	547	/00	/10	/10		QUESTAR	466				
MINERVA	606	609	610	612		R adialva	481	487	527		
MINOLTA MITSUBISHI	477 477	505	519	527	542	RADIOLA	527	575			
	609	612	487	547	468	RADIONETTE	601	604			
	477	481	/			RADIX	497				
MULTITECH	466	481	487	575		randex Randiu	481 481				
MURPHY	601					RANK/BUSH/MURPHY	481 601				
N AD	547					RCA	477	481	483	547	
NATIONAL	507	50-				REALISTIC	468	481	547		
NEC NECKERMANN	504 450	505 469	576 470	477	491	REDIFFUSION	601	50 -			
IALCIVERNATALA	450 493	469 496	505	4//	471	REX	503	505			
			512	513	519	RICOH ROADSTAR	481 481	487	547	617	
NECKERMANN	509	510	J12								
NECKERMANN	509 528 611	541 616	565	575	610	ROYAL	466	487	547	017	

SABA		Co	odes V	/ideo				Co	des V	/ideo		
SABA	SARA	400	503	504	505		THOMSON	524	574	594	606	226
SABA							THORN					
SAISPA					540						586	604
SALORA 516 517 573 575 575 575 577 100 MBA 481 487 505 527 547 548 SAMERIS 606 507 510 547 575 575 575 577 100 MBA 481 487 509 527 547 548 SANOLING 510 547 575 575 575 577 100 MBA 481 503 527 547 548 SANOLING 510 547 575 575 575 577 100 MBA 481 503 527 548 SANOLING 510 547 575 575 575 577 100 MBA 481 503 548 SANOLING 507 508 549 549 549 549 549 549 549 549 549 549							T. (0.5) (
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SANSUI 487 505 575			F 17	575	C7.C	507				303	327	347
SANSHI			54/	5/5	5/5	59/						
SANNO			505	575			TOWIKA	487				
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SELECO		487			547				571			
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SHIVANI			344						562	589		
SHORIN 547 SHORIN 547 SHORIN 549 461 462 464 468 WEGMOX 575 SHEMENS 499 470 472 479 480 WHITE WESTINGHOUSE 450 565 WILSTON 575 SHEMENS 495 496 497 498 511 WIZIA 528 SHORIN 575 SHEMENS 495 496 497 498 511 WIZIA 528 SHORIN 575 SHEMENS 525 530 584 607 609 WORDWIEW 575 SHORING 481 487 490 SHEMENS 496 497 498 511 WIZIA 528 SHORING 575 SHORING 481 487 490 SHEMENS 496 497 498 511 WIZIA 528 SHORING 575 SHORING 481 487 575 599 SHORING 547 SHORING 548 SH			575									
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SIEMENS												
Metalon		609	612						487	547		
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SIEMENS			486	491	492	493			363			
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SINLEYNE 509 513 527 575 616												
SINLIDYNE 509 513 527 575 599			547	575	616				401	407	400	
SOLAYON	SINUDYNE	509	513	527	575	599	TORO			407	470	
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SYMPHONIC							A KAI	214				
SYMPHONIC	SYLVANIA	527					B LUEsky	254				
TAISHO 509	SYMPHONIC	481	487	527			Boxford					
TALENT 609 612	T AISHO	509										
TANDBERG TANDY 468 TASHIKO 528 529 DENON 216 Deik 248 TATUNG 505 527 EMERSON 263 TEC 466 TECHINE 487 TECHNICS 527 532 TECHNISAT TEKNANT 575 TELEAVIA 503 TELEAVIA 503 TELEAVIA 503 TELEAVIA 503 TELEAVIA 503 TELEAVIA 503 TELEAVIA 504 TELEAVIA 505 TELEAVIA 507 TELEAVIA 508 TELEFUNKEN 500 503 504 505 515 KISS 270 LABWAVE LABWAVE 201 LOEWE 219 TELETECH ANALY ANALYST DENON 216 223 230 248 248 248 248 248 248 248 248			612									
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TATUNG									230			
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TEKNANT 575									232	230		
TELEAVIA 503	TEKNANT	575							210	240	241	
TELEAVIA 505 TELEFUNKEN 500 503 504 505 515 KENWOOD 208 246 231 263 KISS 270 TELEORDER 547 TELEORDER 547 TELEORDER 505 TELESERVICE 609 612 TELESERVICE 487 MANAGEMENT 215 TELETECH 487									210	200	201	
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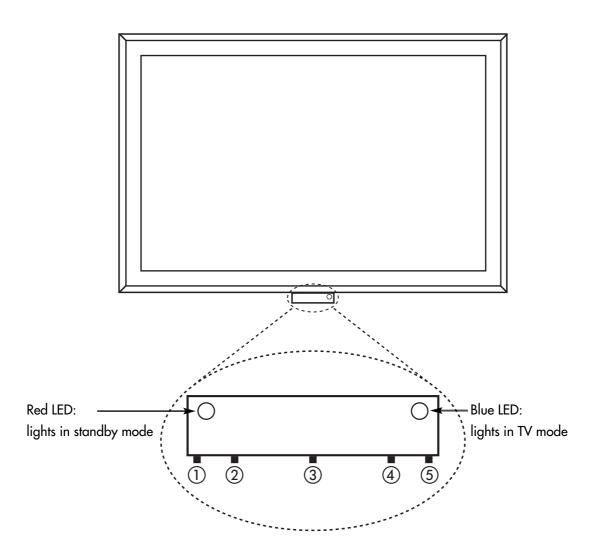
	Code	s DVD	-Playe	r			Cod	es HIF	l - CD		
MUSTEK	256	257	258			MAGNAVOX	908				
MYRYAD	269					MICROMEGA	908				
V AD	207					MINOWA	972				
ONAME	228					MISSION	908	909			
NKYO	209	225	226			MTC	955				
DRION	266	223	220			N AD	947				
ANASONIC	216	267	274	275	276	NAIM	908				
HILIPS	219	220	227	233	234	NAKAMICHI	930				
	235	236	237	278		NOKIA	938				
ONEER	203	204	249	250	251	NONAME	888		06.	05-	
ROLINE	228	273				NSM	802	803	804	805	806
AMSUNG	210	268					807				
CHAUB LORENZ	255	0/-				O KANO	869	871			
CHNEIDER	244	248	263			ONKYO	819	827	861	881	
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ONY	211	229	264	265		PANASONIC	834	915	918		
INKAI	242	**				PHILIPS	833	908	909	911	965
CHNICS	216	217				PIONEER	824	825	826	850	862
VION	228	259				PMG	863 906	864	922	923	
IOMSON	213	277				PROTON	908				
SHIBA	202	245	246			_	, 50				
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KAI	856	857	872	921		S ABA	926				
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MSTARD	957	0.40	0.40	05/		SAMSUNG	939	951	966	968	
MSTRAD RCAM	929 908	940	942	956		SANSUI	908	0.40	010		
SWO	906					SANYO	852	860	919	070	0.40
,,, <u>o</u>	, , ,					SCHNEIDER	821 870	840 873	841 885	868 888	869 892
ANG & OLUFSEN	808						911	927	928	929	955
RAUN	975	976					959	960	972	973	977
JSH	888						978	979	980	981	982
	a · -						983	984	985	986	987
AMBRIDGE ALIDIO	945						988	989			
AMBRIDGE AUDIO	945					SHARP	799	800	813	847	
ARVER	908					SHERWOOD	936	943 867	944	869	872
AEWOO	876					SIEMENS	833 873	867 874	868 875	869 876	8/2 880
ENON	801	812	845	846	853		883	885	886	887	889
	899	900	901	961	962		890	891	969	970	971
IORA	949					SINOTEC	892	٠,١		0	
UAL	822	832	859	994		SINOTEC (PEPSI-DOSE)	892				
ICCLIED	000	005		6.55		SONY	842	843	893	895	896
ISCHER	830	831	920	953			897	898	932	990	991
OLDSTAR	005					SUPERTECH	888	945			
OLDSTAR OODMANNS	885 872					Sylvania	908				
OODMANS	888					T +A	882	974			
RUNDIG	908	911	912	913		T+A ELECTROAKUSTIK		7/4			
			–			TECHNICS	809	916	917	918	
	005	931	934	935			950	993			
	905					TENSAI	954				
	905 853					THOMSON	823				
ARMAN KARDON ITACHI	853						0.7				
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tachi Itersound	853					UHER	814	070	000	0.50	011
tachi Itersound -	960 937	Q 4 D	940	002	903	U HER UNIVERSUM	869	872	908	952	966
TACHI TERSOUND	960 937 844	848 992	849	902	903	UNIVERSUM	869 979	872	908	952	966
tachi Itersound -	960 937	848 992	849	902	903		869	872	908	952	966
tachi Itersound ''	960 937 844		849 858			UNIVERSUM UNKNOWN	869 979 995				
tachi htersound f /c enwood	960 937 844 904	992		902 859 948	903 877 963	UNIVERSUM	869 979	872 854	908 855	952 933	966 941
tachi htersound f /c enwood	853 960 937 844 904 820	992 847	858	859	877	UNIVERSUM UNKNOWN	869 979 995 828	854	855	933	
tachi Itersound I /C Enwood	853 960 937 844 904 820 878 908	992 847 879	858	859	877	UNIVERSUM UNKNOWN	869 979 995 828		855	933	
tachi itersound f /c enwood rell	853 960 937 844 904 820 878 908 908	992 847 879 964	858 925	859	877	UNIVERSUM UNKNOWN YAMAHA	869 979 995 828	854 es HIFI	855 - Tape	933	941
TACHI ITERSOUND T /C ENWOOD RELL NN	853 960 937 844 904 820 878 908	992 847 879	858	859	877	UNIVERSUM UNKNOWN YAMAHA AIWA	869 979 995 828 Code 842	854 ES HIFI 843	855 - Tap e	933	
ITACHI VITERSOUND T VC ENWOOD RELL NN JXMAN	853 960 937 844 904 820 878 908 908 924	992 847 879 964	858 925	859	877	UNIVERSUM UNKNOWN YAMAHA AIWA AKAI	869 979 995 828 Code 842 845	854 ES HIFI 843 849	855 - Tape 844 913	933	941
TACHI ITERSOUND C ENWOOD ELL NN XMAN LETZ HE11	853 960 937 844 904 820 878 908 908 924 882	992 847 879 964 946	858 925	859	877	UNIVERSUM UNKNOWN YAMAHA AIWA AKAI 934	869 979 995 828 Code 842 845 945	854 ES HIFI 843	855 - Tap e	933	941
TACHI ITERSOUND C ENWOOD EELL NN XMAN LETZ HEI I ARANTZ	853 960 937 844 904 820 878 908 908 924 882 833	992 847 879 964	858 925	859	877	UNIVERSUM UNKNOWN YAMAHA AIWA AKAI 934 AMSTRAD	869 979 995 828 Code 842 845 945 916	854 ES HIFI 843 849	855 - Tape 844 913	933	941
TACHI TERSOUND C ENWOOD ELL NN XMAN ETZ HE11	853 960 937 844 904 820 878 908 908 924 882	992 847 879 964 946	858 925	859	877	UNIVERSUM UNKNOWN YAMAHA AIWA AKAI 934	869 979 995 828 Code 842 845 945	854 ES HIFI 843 849	855 - Tape 844 913	933	941

	Code	s HIFI	- Tape	:			Code	s HIFI	- Tune	r	
BUSH	835					B ANG & OLUFSEN BUSH	369 748				
DAEWOO DENON	907 834 892	840 970	841 971	879 972	891	D AEWOO DENON	458 371	739 372	423	424	445
DIORA DUAL	899 837	900 850	851	935	936	DIORA	471 461	991			0
FISCHER	893	894	985	998		DUAL F ISCHER	370 434	381 449	994		
G OLDSTAR GOODMANNS GOODMANS GRUNDIG	964 833 867 976	979	980			G OLDSTAR GOODMANNS GOODMANS GRUNDIG	746 737 748 427	429	450		
H arman Kardon Hitachi	926 915	984 931				H ARMAN KARDON HITACHI	418 453	730 991			
lπ	918	919				Ι π	412	,,,			
J vc	862	863 995	974 996	975		J vc		105	444	4.47	4.40
K enwood	994 848	917	935	997 936			414	425	444	447	448
LINN	957 888	958 889	990	993		K ENWOOD	417 994	439	446	740	741
LUXMAN METZ HE11	876 961	877	884	989		L INN LUXMAN	472 438	474			
MARANTZ NAD NAKAMICHI	903 927	922 904	999 905	906		Metz He11 Marantz Minowa Mission	743 450 409 426				
NOKIA O KANO ONKYO	920 948 846 959	949 847 960	856	901	902	N OKIA NAD NAKAMICHI NONAME	410 459 419 748				
PALLADIUM PANASONIC PHILIPS	944 928 921	929 976	982 980	999		O KANO ONKYO	733 379	736 440	460	742	
PIONEER	853 939	854 941	855 942	912 943	938 988	Palladium Panasonic Philips	731 371 427	735 432 450	451		
R admor revox revox/studer	978 860 977	861				PIONEER	383 997	384 998	436 999	437	996
S AMSUNG SANY	883 897 985	885	886	896		R evox Revox/studer Radmor Rotel	386 427 428 378				
SANYO SCHNEIDER	930 866 873	937 867 874	986 868 878	869 918	872 919	Samsung	411 476	463	465	473	475
SHARP SHERWOOD	947 839 890 923	964 864 908	976 993 909	910	911	SANYO SCHNEIDER	433 374 392 397	990 380 393 398	995 388 394 399	390 395	391 396
SIEMENS	950 955	881 951 956	882 952 964	946 953 976	947 954		402 409 469	403 412 470	404 441 732	400 407 442 733	401 408 443 735
SONY	865 968	925 969	965 991	966 992	967	SHARP SHERWOOD	746 373 413	748 446 456	749 457		-
T +A TECHNICS THOMSON	871 838 852	961 898	981	983		SIEMENS	426 480 739	427 732 746	477 733 747	478 737	479 738
Universum	868 950	875	886	895	947	SINOTEC SINOTEC (PEPSI-DOSE) SONY SUPERTECH	749 749 389 466	416	420	421	422
Yамана	857 932	858	859	914	924	T+A TECHNICS	405 387	743 430	431	462	
	Code	s HIFI	- Tunei	r		TENSAI THOMSON	406 382	450	401	402	
A IWA AKAI AMSTRAD	376 734 452	377 737 455	745 993 464	468	469	U HER UNIVERSUM	375 403	467	473	733	737
ASH ASWO	744 427	455	404	400	-1 07	Y AMAHA	385	415	435	454	992

	Code	s HIFI	- Amp	•	
A IWA	777	985	986		
AKAI AMSTRAD	753 785	754 813	766 829	831	840
ASH ASWO	776 793				
B ANG & OLUFSEN BRAUN BUSH	996 960 748	782			
D AEWOO DENON	770 751 988	789	790	<i>7</i> 91	817
DIORA DUAL	835 952	981	995		
FISCHER	750	820	839		
G rundig Goodmanns Goldstar	794 749 779	795 766	804 782		
H arman Kardon Hitachi	760 751	823			
I π	827				
J BL JVC	821 792	975 816	819		
K enwood	755	<i>77</i> 1	818		
L INN LUXMAN	794 810	795 845	954	955	
METZ HE11 MARANTZ MEDION MERIDIAN MINOWA MISSION	774 794 785 795 978 799	795	798		
N OKIA NAD NAKAMICHI NIAM NONAME	826 834 822 795 782				
O KANO ONKYO	763 772	765 982			
P alladium Palladium/okano	761 764	783	991		
PANASONIC PHILIPS	805 793	808 794	994 795	796	797
PIONEER PRO-LOGIC	798 757 957	803 758	992 795		
Q UAD	795				
RADIOTONE RADMOR REVOX REVOX/STUDER ROTEL	841 801 843 796 983	802 977 797 984	803 798		
S ABA SAMSUNG SANYO SCHNEIDER	811 828 750 763 783 812 840 961	837 756 764 784 813 842 962	844 768 785 814 951 963	846 779 786 815 953 964	782 794 827 956 965
SCHNEIDER SHARP SHERWOOD SIEMENS	966 971 818 825 762 769 781	967 972 990 832 763 770 784	968 973 833 766 775 785	969 978 767 779 794	970 768 780 800

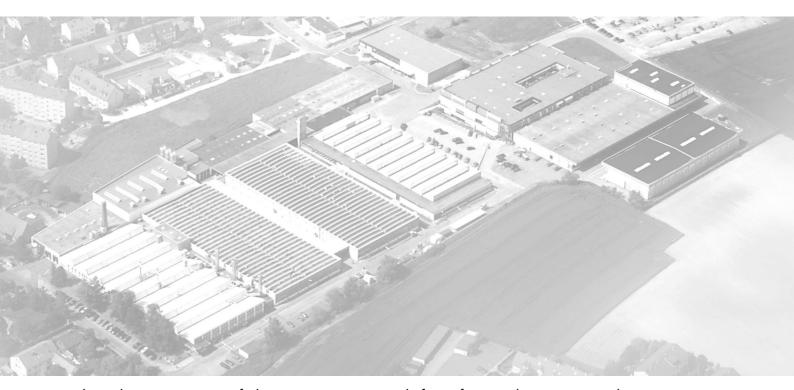
Codes HIFI - Amp. SIEMENS 947 948 950 SINOTEC (PEPSI-DOSE) 786 SONY 787 788 974 991 SUPERTECH 782 T+A 774 959 TECHNICS 805 806 836 976 993 TENSAI 958 THOMSON 980 UHER 987 UNIVERSUM 763 766 838 844 963 YAMAHA 752 809 824 830 979	SIEMENS 947 948 950 SINOTEC 786 SINOTEC (PEPSI-DOSE) 786 SONY 787 788 974 991 SUPERTECH 782 T+A 774 959 TECHNICS 805 806 836 976 993 TENSAI 958 THOMSON 980 UHER 987 UNIVERSUM 763 766 838 844 963	SIEMENS 947 948 950 SINOTEC 786 SINOTEC (PEPSI-DOSE) 786 SONY 787 788 974 991 SUPERTECH 782 T+A 774 959 TECHNICS 805 806 836 976 993 TENSAI 958 THOMSON 980 UHER 987 UNIVERSUM 763 766 838 844 963	list					
SIEMENS 947 948 950 SINOTEC 786 SINOTEC (PEPSI-DOSE) 786 SONY 787 788 974 991 SUPERTECH 782 T+A 774 959 TECHNICS 805 806 836 976 993 TENSAI 958 THOMSON 980 UHER 987 UNIVERSUM 763 766 838 844 963	SIEMENS 947 948 950 SINOTEC 786 SINOTEC (PEPSI-DOSE) 786 SONY 787 788 974 991 SUPERTECH 782 T+A 774 959 TECHNICS 805 806 836 976 993 TENSAI 958 THOMSON 980 UHER 987 UNIVERSUM 763 766 838 844 963	SIEMENS 947 948 950 SINOTEC 786 SINOTEC (PEPSI-DOSE) 786 SONY 787 788 974 991 SUPERTECH 782 T+A 774 959 TECHNICS 805 806 836 976 993 TENSAI 958 THOMSON 980 UHER 987 UNIVERSUM 763 766 838 844 963		Codos	HIEL-	Amp		
SINOTEC 786 SINOTEC (PEPSI-DOSE) 786 SONY 787 788 974 991 SUPERTECH 782 T+A 774 959 TECHNICS 805 806 836 976 993 TENSAI 958 THOMSON 980 UHER 987 UNIVERSUM 763 766 838 844 963	SINOTEC 786 SINOTEC (PEPSI-DOSE) 786 SONY 787 788 974 991 SUPERTECH 782 T+A 774 959 TECHNICS 805 806 836 976 993 TENSAI 958 THOMSON 980 UHER 987 UNIVERSUM 763 766 838 844 963	SINOTEC 786 SINOTEC (PEPSI-DOSE) 786 SONY 787 788 974 991 SUPERTECH 782 T+A 774 959 TECHNICS 805 806 836 976 993 TENSAI 958 THOMSON 980 UHER 987 UNIVERSUM 763 766 838 844 963	CIEAAENIC					
T+A 774 959 TECHNICS 805 806 836 976 993 TENSAI 958 THOMSON 980 UHER 987 UNIVERSUM 763 766 838 844 963	T+A 774 959 TECHNICS 805 806 836 976 993 TENSAI 958 THOMSON 980 UHER 987 UNIVERSUM 763 766 838 844 963	T+A 774 959 TECHNICS 805 806 836 976 993 TENSAI 958 THOMSON 980 UHER 987 UNIVERSUM 763 766 838 844 963	SINOTEC SINOTEC (PEPSI-DOSE) SONY	786 786 787			991	
U HER 987 UNIVERSUM 763 766 838 844 963	U HER 987 UNIVERSUM 763 766 838 844 963	U HER 987 UNIVERSUM 763 766 838 844 963	T +A TECHNICS TENSAI	774 805 958	959 806	836	976	993
YAMAHA 752 809 824 830 979	YAMAHA 752 809 824 830 979	YAMAHA 752 809 824 830 979	U HER	987	766	838	844	963
			Y AMAHA	752	809	824	830	979

Local Controls



(1)	Previous programme position	In menu: cursor down
2	Next programme position	In menu: cursor up
3	Volume –	In menu: back to previous menu
4	Volume +	In menu: next menu
(5)	Switch on from standby mode	Open menu





Metz-Werke GmbH & Co KG • Postfach 1267 • D-90506 Zirndorf • info@metz.de • www.metz.de



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